EXHIBIT G

California State Lands Commission Presurvey Notice Requirements for Permittees to Conduct Geophysical Survey Activities

All parts of the Presurvey Notice must be adequately filled out and submitted to the CSLC staff a minimum of twenty-one (21) calendar days prior to the proposed survey date to ensure adequate review and approval time for CSLC staff. Note that one or more of the items may require the Permittee to plan well in advance in order to obtain the necessary documentation prior to the Notice due date (e.g., permits from other State or Federal entities).

Please use the boxes below to verify that all the required documents are included in the Presurvey Notice. If "No" is checked for any item, please provide an explanation in the space provided. If additional space is needed, please attach separate pages.

Yes	No	
v		Geophysical Survey Permit Exhibit F
V		Survey Location (including a full-sized navigation chart and GPS coordinates for each proposed track line and turning point) Explanation: attached and shapefiles supplied
	/	Permit(s) or Authorization from other Federal or State agencies (if applicable) Explanation: No other required
/		21-Day Written Notice of Survey Operations to Statewide Geophysical Coordinator/
'		U.S. Coast Guard Local Notice to Mariners/
~		Harbormaster and Dive Shop Notifications Explanation: delivered
~		Marine Wildlife Contingency Plan Explanation: attached
~		Oil Spill Contingency Plan Explanation: attached
~		Verification of California Air Resources Board's Tier 2-Certified Engine Requirement Explanation: QSB5.9 - Cummins Engines are EPA Tier2 - Attached
~		Verification of Equipment Service and/or Maintenance (must verify sound output) Explanation: Attached
	~	Permit(s) or Authorization from California Department of Fish and Wildlife for surveys in or affecting Marine Protected Area(s) (if applicable) Explanation: N/A

NOTE: CSLC staff will also require verification that current biological information was obtained and transmitted as outlined in Section 5 of this permit.

EXHIBIT F

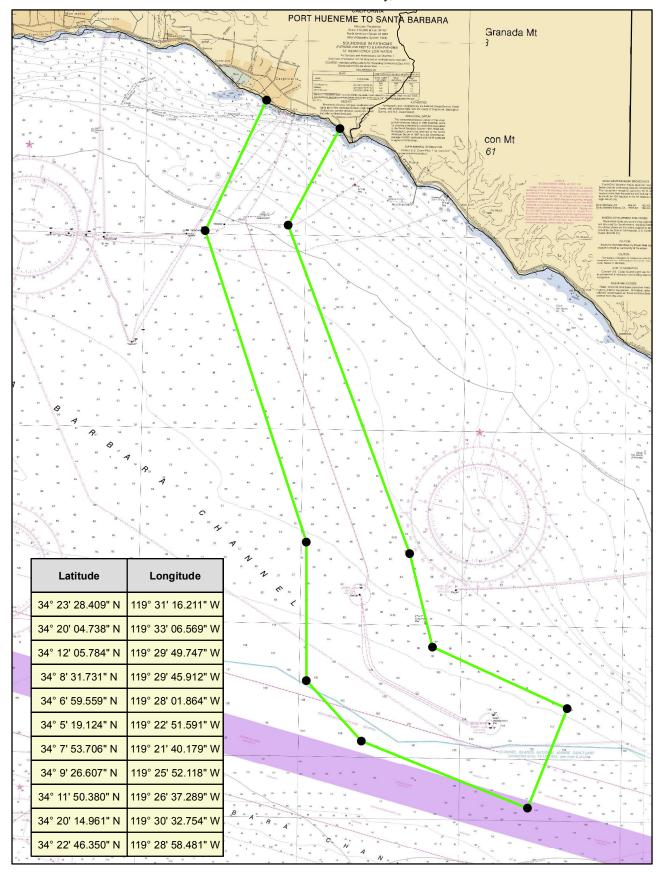
PRESURVEY NOTIFICATION FORM

Applicant/Permittee's Mailing Address			Date: March 24, 2015
FUGRO PELAGOS INC.	Jurisdiction:	Federal	State Both
4820 McGRATH STREET SUITE 100		If State: Perm	.
VENTURA, CALIFORNIA 93003		Region	· · · · · · · · · · · · · · · · · · ·
attached and shapefiles supplied		Area:	Santa Barbara/Ventura
<u>GEOPH</u>	YSICAL SUR	VEY PERMI	<u>T</u>
Check one: New survey _		Time extension	n of a previous survey
Fugro Pelagos Inc. (Applicant/Per	mittee) will cond	uct a geophysic	cal survey offshore California in
the survey area outlined on the accompa interference with commercial fishing or	nying navigation	chart segment.	If you foresee potential
1) Applicant's representative 2) Federal representative (e.g., E. Science Foundation [NSF]) NOTE: Any comments regardin Applicant's Representative this notice. STATE WATERS (Inside 3 nautical 1) Permittee's representative 2) CSLC representative NOTE: Any comments regarding as possible by the Permittee's repthis notice.	Bureau of Ocean I g potential conflive and lead Feder miles)	icts in Federal v ral agency withi	waters must be received by the in ten (10) days of the receipt of ters should be received as soon
1. Expected Date of Operation April 15, 2	2015 - April 30, 20	15	
2. Hours of Operation Daylight Hours On	ly (6:30 am - 6:30 _I	om)	
3. Vessel Name R/V Theory			
4. Vessel Official Number 1217549			
5. Vessel Radio Call Sign N/A			
6. Vessel Captain's Name Brayton Pointr	ner	A Secretary of the Control of the Co	
7. Vessel will monitor Radio Channel(s			
8. Vessel Navigation System DGPS			
			· ·

9. Equipment to be used Side Scan Sonar								
a. Frequency (Hz, kHz) 400 Khz, a	Frequency (Hz, kHz) 400 Khz, and 900 Khz							
b. Source level (dB re 1 μPa at 1 m	Source level (dB re 1 µPa at 1 meter (m) [root mean square (rms)]) 188.0 dB rms							
	peamwidth, and along track beamwidth							
side scan sonar 4125 0.46 degrees	s along track x 50 degrees across track							
d. Pulse rate and length pulse rate	0.1 (ms) length: 2.8 (ms)							
e. Rise time N/A								
f. Estimated distances to the 190 d	B, 180 dB, and 160 dB re 1 μPa (rms) isopleths							
160=25/60m 180=9/22m 190=4	1/9							
g. Deployment depth 2 to 365 m	neters below sea surface (varies depending on water depth)							
h. Tow speed 4.0 Knots								
i. Approximate length of cable tov	v 5 to 800 meters (varies depending on water depth)							
Applicant's Representative: Eddie Stutts Fugro Pelagos Inc. 4820 McGrath St. Suite 100 Ventura, CA 93003 (805) 289-3891 BOEM Representative Joan Barminski Regional Supervisor Office of Strategic Resources 770 Paseo Camarillo Camarillo, CA 93010 (805) 389-7585	California State Lands Representative Richard B. Greenwood Statewide Geophysical Coordinator 200 Oceangate, 12th Floor Long Beach, CA 90802-4331 (562) 590-5201 Other Federal Representative (if not BOEM):							

NOAA Nautical Chart 18720 with Proposed Survey Area

Seafloor Mapping Geophysical Survey Notice Offshore Santa Barbara County, California





FUGRO 2015 ON-BOARD SPILL CONTAINMENT AND CLEAN-UP PLAN

THIS PLAN IS FOR FUGRO PERSONNEL TO READ *BEFORE* A SPILL OCCURS --AND TO KEEP HANDY FOR REFERENCE DURING AN EMERGENCY.

THE KEY TO SPILL PROTECTION IS EARLY RESPONSE AND ACTION.

THIS PLAN IS FOR ALL EMPLOYEES ON A VESSEL OR BARGE. IT OUTLINES THE COMPANY PRIORITIES, THE LOCATION OF SPILL RESPONSE EQUIPMENT, INSTRUCTIONS ON HOW TO RESPOND, DIRECTIONS TO EMERGENCY MEDICAL FACILITIES, AND NOTIFICATION NAMES AND PHONE NUMBERS.

SPILL RESPONSE

PRIORITIES

In the event of a spill, on-site personnel are in the best position to take prompt action to minimize and control the spill.

Our company priorities are:

- 1. Personnel Safety
- 2. Prevention of Fire or Explosion
- 3. Elimination of Spill Source
- 4. Containment of the Spill
- 5. Collection and Storage of Contaminated Debris and Materials
- 6. Notification of Spillage
- 7. Preparation of Reports

SAFETY OF PERSONNEL IS <u>ALWAYS</u> OUR FIRST PRIORITY.





SPILL RESPONSE MEASURES

In case of an actual spill, take the following actions IF IT IS SAFE TO DO SO:

Call 911 for medical or fire emergency assistance if needed

Isolate and administer to injured persons if necessary

TAKE NECESSARY STEPS TO REDUCE THE RISK OF FIRE

- Turn off equipment, valves, or pumps
- Turn off or extinguish any sources of hot surfaces or flame

STOP SPILL AT SOURCE IF SAFE AND POSSIBLE

- Stop equipment leaks by crimping hoses, plugging holes, or isolating parts
- Upright turned over oil/grease or paint buckets
- Stop tank leaks by placing in additional containment or plugging hole

CONTAIN ON-DECK SPILL FROM SPREADING OVERBOARD

- Berm around spreading spill with absorbent material(rags, kitty litter, sock boom, etc)
- Apply granular absorbent("kitty litter") in sufficient quantity to soak up entire spill
- Wipe small spills with cotton rags

CONTAIN WATER-BORNE SPILLS TO AS SMALL AN AREA AS POSSIBLE

- Apply absorbent pads to spilled material
- Deploy oil boom/absorbent sock boom

♥ IF SPILL IS LARGE, CALL THE FUGEO SUPERINTENDENT OR VICE PRESIDENT AS SOON AS POSSIBLE.

FOR IMMEDIATE DEPLOYMENT OF LARGE OIL BOOM, CALL ONE OF THE FOLLOWING COMPANIES.

- Clean Seas, LLC (805) 684-3838
- Marine Spill Response Corporation (MSRC) Tel: (510) 478-0702
- National Response Corporation (NRC) Tel: (562) 506-2060
- Patriot Environmental Services (562) 244-2204
- Foss Maritime or another closer response team and request response to clean up the fuel

CLEAN UP SPILL AND USED SPILL MATERIALS

- Gather soaked rags, absorbents, boom and dirt
- Place in leak proof containers for storage and disposal





EMPLOYEE TRAINING ON OIL SPILL CONTINGENCY PLAN

Prior to the departure of the vessel for any activities, all Captain and crew members on the vessel will have read the Oil Spill Contingency Plan, understand procedures to be implemented in the event of an oil spill, and know where the oil spill kit is located on the vessel.

EMERGENCY EQUIPMENT

LOCATION

As part of each job start-up safety meeting, the spill containment and cleanup material will be discussed and verified.

EQUIPMENT

The Spill Containment and Cleanup Materials include:

- 1 Box of 20 Gloves: in spill kit box located in front compartment of vessel
- 2 pair Goggles: in spill kit box located in front compartment of vessel
- 1 Box of Rags:in spill kit box located in front compartment of vessel
- 1 Box of 20 Garbage bags: in spill kit box located in front compartment of vessel
- 30 each Absorbent pads: spill kit box located in front compartment of vessel
- 1 Small Oil Boom: located on back deck
- 1 12lb Bag Granular absorbent ("kitty litter"): located in fron compartment of vessel
- 1 Shovel: located on back deck

FIRE EXTINGUISHERS ARE MOUNTED ON ALL VESSELS, PICKUP TRUCKS AND THERE IS ONE IN THE OFFICE. THE FIRE EXTINGUISHER WILL BE CHECKED FOR EXPIRATION DATE AND THE LOCATION DISCUSSED AT EACH SAFETY MEETING.

INVENTORY & RESTOCKING

The on-board spill containment and cleanup materials are inventoried by the Foreman at the start of every job, at least monthly and after a spill response. Depleted items are to be reported to the Superintendent or any member of the office staff. Items are to be ordered immediately and restocked promptly.





NOTIFICATIONS

In case of a spill, notify a Fugro 24 hour representative (see addendum 1 for names and phone numbers).

GIVE THE FOLLOWING INFORMATION TO THE BEST OF YOUR ABILITY:

- Your name
- Location
- Date of spill
- · Time of spill
- Substance spilled
- Quantity spilled
- Potential for continued spill
- Possible health hazard
- Source of spill
- Actions taken
- Threatened resources/utilites

THE ENVIRONMENTAL COORDINATOR WILL:

- Notify the applicable local, state and federal authorities
- Coordinate and disseminate information to the media
- Handle the legal obligations and responsibilities of the company





Emergency Notification PHONE LIST

Fugro, Inc.

Office 805-650-7000

California State Lands Commission

24-Hour Emergency Number 562-590-5201

Fire Emergency 911 911

Medical Emergency 911 911





Guide for Fugro Management

- 1. Call for outside assistance if appropriate for the spill.
- 2. Call the Company Environmental and Safety Coordinator to coordinate the legal notifications and media inquiries:
- 3. If there is an **actual** release to the environment, the U.S. EPA Emergency Response Program requires notification to **one** of the following organizations:

NATIONAL RESPONSE CENTER	1-800-424-8802
U.S. COAST GUARD MARINE SAFETY OFFICE	1-510-437-3073
	1-510-437-3074

4. Other organizations that may be involved:

U.S. EPA Hazardous Waste	1-415-744-2000
California Office of Emergency Services	1-800-852-7550
Additional number	1-916-427-4287
State of California Water Quality	1-510-286-1255
State of California Fish & Game	1-707-944-5512
After hours and weekends	1-916-445-0045
Vessel Traffic	1-415-556-2760
Ca Oiled Wildlife Care Network	1-916-445-0045

5. The information that will be requested is attached as Addendum # 6.





Fugro ,Owner, and Management Information

Fugro Environmental and Safety Coordinator

Jeffery Ripper 858-427-2017

Officers of the Corporation

Robin Villa 805-815-5812

Eddie Stutts 805-432-2213





OPERATIONAL INFORMATION

NORMAL OPERATIONS

We contract with public and private entities to conduct high resolution low energy geophysical and geotechnical engineering surveys.

To accomplish this work, we purchase equipment, tools, material, and supplies which are gathered at various mobilization sites and loaded onto vessels and barges which are berthed alongside a dock. When needed tugboats move barges to and from the jobsites. At the completion of projects, the reverse process takes place - unloading equipment, materials, tools, and supplies.

POTENTIAL SPILLS DUE TO NORMAL OPERATIONS

- Oil, grease, fuel, or hydraulic fluid leak from machinery or equipment Cranes, winches, generators, light plants and boats require fluids to operate.
 - Fluids could leak onto the vessel or into the water

Oil, grease, or fuel spill from storage

Oil and grease are stored in the vessels and/or barges in 5 gallon or smaller plastic buckets.

• Buckets could be dropped or punctured in transport

Fuel is stored in steel tanks housed on the vessels.

Tanks could be punctured by sharp objects

Paint spill

Paint is generally purchased and utilized as needed. If extra is kept, one gallon pails and spray cans could be stored below deck.

Pails could be punctured or tipped over during use





PRODUCT USAGE INFORMATION

CHEMICALS AND FUELS (DESCRIPTION & QUANTITIES)

MSDS sheets are available on the vessel, and the Fugro office.

Oil < 4 quarts

Gasoline < 100 gallons



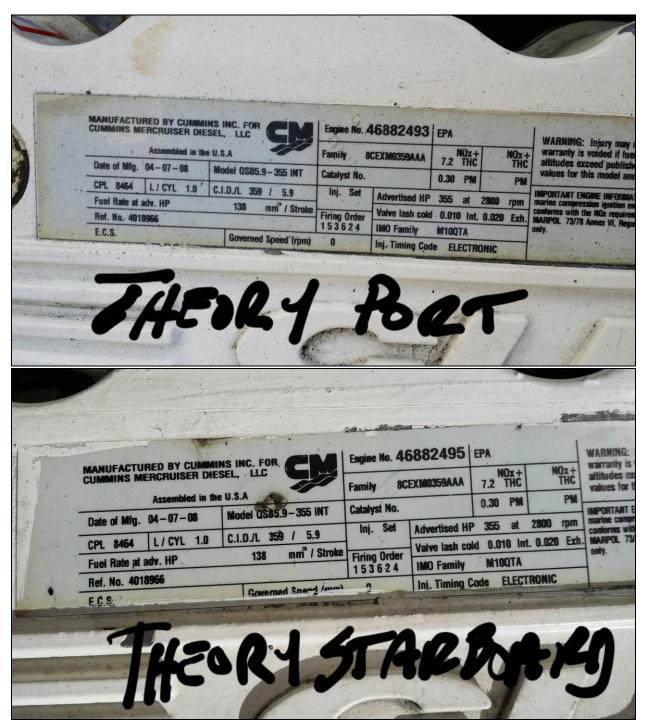


SPILLS RESULTING FROM VESSEL FUELING

All vessel fueling will be conducted on land at a gas station or at an approved docking facility. No cross vessel fueling will be performed.



M/V Theory QSB5.9 for Recreational Marine - Cummins Engines





QSB5.9

QUANTUM SERIES ENGINE

Features

Fuel System: Bosch High-Pressure Common-Rail, Front mounted spin-on Fleetguard fuel filter

Lubrication System: Front mounted spin-on Fleetguard

lube filter

Electrical System: 12-volt and 24-volt systems

available

Air Intake System: Light duty or servicable type

air cleaner

Coolant System: Sea Water heat exchanger cooling

system; Keel cooled system available

Emissions: EPA Tier 2, IMO, and RCD certified

Breather System: Open or closed

Engine Updates: Optional dry run SW pump and an

alternate fuel capability (JP8, JP5)

Engine Overview

- Unmatched peformance driven through a perfectly matched turbocharger and a new 24-valve cylinder head that delivers industry-leading power density
- Quiet operation, including an 80-percent reduction in noise at idle, is one of the many benefits from the common-rail fuel system
- Enhanced sociability from the high-pressure common-rail design virtually eliminates smoke and improves the whole boating experience
- Maximize vessel performance and access comprehensive vessel diagnostic information via SmartCraft[®] electronics
- Peace of mind delivered by the Cummins Captain's Briefing and global service network

Engine Specifications

In-line 6-cylinder, 4-stroke diesel
102 mm x 120 mm (4.02 in x 4.72 in)
5.9 L (359 in ³)
Turbocharged / Aftercooled
Counterclockwise facing flywheel



Power Ratings

Rating	HO/GS	НО	ID/HO	HO/GS	ID/HO	НО	MD/HO	HD/HO	ID/HO
Metric hp	480	440	425	380	355	330	305	230	230
bhp	472	436	420	375	350	325	300	225	227
KW	352	325	313	280	261	243	224	168	169
Rated rpm	3400	3400	3000	3000	2800	2800	2600	2600	3000
Max Torque ft-lbs	942	913	908	898	853	830	783	670	510
Max Torque N-m	1278	1238	1231	1218	1156	1125	1062	908	691
rpm @ max torque	2200	2000	2000	2000	2000	1800	1800	1600	1600

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

QSB5.9 QUANTUM SERIES ENGINE

Fuel Consumption (Prop Curve)

Rating	QSE	35.9 - <i>4</i>	180 H	o/gs	QS	SB5.9	- 440	НО	QS	B5.9 -	425 IE)/HO	QSE	35.9 - 3	380 H	o/gs	QSE	35.9 - :	355 IC)/HO
rpm	3400	3200	3000	2800	3400	3200	3000	2800	3000	2800	2600	2400	3000	2800	2600	2400	2800	2600	2400	2200
KW	352	348	340	334	325	319	318	310	313	307	299	292	280	279	281	271	261	259	256	254
l/hr	97.4	79.1	62.8	52	90.6	72.8	58.7	48.6	81.3	65.5	53	43.4	76.2	60.6	48.1	39.5	68.1	55.2	44.3	36.2
bhp	472	466	456	448	436	427	426	416	420	411	401	391	375	374	377	364	350	347	343	340
gal/hr	25.7	20.9	16.6	13.7	23.9	19.2	15.5	12.8	21.5	17.3	14	11.5	20.1	16	12.7	10.4	18	14.6	11.7	9.6

Rating	Q:	SB5.9	- 330 l	НО	QSE	QSB5.9 - 305 MD/HO			QSB5.9 - 230 HD/HO				QSB5.9 - 230 ID/HO			
rpm	2800	2600	2400	2200	2600	2400	2200	2000	2600	2400	2200	2000	3000	2800	2600	2400
KW	243	238	240	238	224	221	222	213	168	162	167	165	169	168	162	217
l/hr	63.3	50.8	41.6	33.5	57.3	47	37.9	30.8	42.2	36.8	29.7	23.3	47	40	33	26.8
bhp	325	319	321	320	300	296	287	286	225	217	225	222	227	226	217	207
gal/hr	16.7	13.4	11	8.9	15.1	12.4	10	8.1	11.1	9.7	7.9	6.1	12.5	10.6	8.7	7.1

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

Engine Dimensions

Ler	ngth	W	Width		ight	Weight (Dry)*		
mm	in	mm	in	mm	in	kg	lb	
1036	40.8	836	32 9	880	34 6	612	1350	

*Does not include exhaust connection. Weights vary by rating. Length to flywheel housing. Length measured from back of flywheel to engine front. Overall height includes dipstick.

Available Accessories

Engine Controls: Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls

Instrumentation: SmartCraft® 2.2 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more

Vessel System Integration: SmartCraft® 2.2 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more



Ratings Definitions

Heavy Duty (HD): Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.

Medium Continuous (MD): Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.

Intermittent (ID): Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

Government Service (GS): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are restricted to non-revenue generating government service propulsion applications. It is not to be used in any revenue generating commercial applications, nor is it to be used in recreational/pleasure applications

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm), Refer to Table 1 below. For applications operating

less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCl procedures.

Table 1	
Rated Speed	Cruise Speed (reduction from rated)
2000 to 2800 rpm	200 rpm
2801 to 3500 rpm	300 rpm
3501 to 4500 rpm	400 rpm

Ratings and specifications subject to change without notice. Not responsible for typographical errors.



Cummins Inc. 4500 Leeds Avenue - Suite 301 Charleston, SC 29405-8539



4 Little Brook Rd., West Wareham, MA 02576 Tel: (508) 291-0057 Fax: (508) 291-2491 Email: info@edgetech.com Web: www.edgetech.com

CERTIFICATE OF CONFORMANCE

CUSTOMER: Fugro

CONTRACT / PURCHASE ORDER NUMBER: 131267

EDGETECH SALES ORDER NUMBER: SO7177

We certify that the following items have met all product requirements and sound source verification as set forth in EdgeTech's approved assembly and Factory Acceptance Test documentation.

Model/Part#: 4125 Description: Side Scan Towfish Serial #: ETN48145

Tow Fish specifications:

Sound Source Level: 210db//uPa

(Dual Frequency – 400/900 kHz or 600/1600 kHz)
Material Stainless Steel Construction
Tow Body dimensions 96 mm (3.75 in) OD, 980 mm (39 in) Length
Weight 15.4 Kg (34 Lbs) in air
(Optional weight available for deep operation)
Operating Depth 200 meters max.
Tow Speed 1-8 knots
Safety shear pin 420 Kg (930 Lbs)
Input power DC 70V, 50 watts maximum
Data link interface Ethernet, 10Mbit/s
Beam width 400 kHz Horizontal, 0.46°, All Sidelobes < -36dB
Vertical, 50°
Beam width 900 kHz Horizontal, 0.28°, All sidelobes < -36dB
Center Frequency 400 kHz/ 900 kHz

EdgeTech

	Jim Allan	Digitally signed by Jim Allan DN: cn=Jim Allan, o=EdgeTech, ou, email=jimallan@edgetech.com, c=US
By: _	0	Date: 2014.06.24 09:19:11 -04'00'

Date: June 24, 2014

Notice of Survey Operations

DEPARTMENT OF HOMELAND SECURITY UNITED STATES COAST GUARD COMMANDER, 11TH COAST GUARD DISTRICT

Building 50-2 Coast Guard Island Alameda, CA 94501-5100 LNM Point of Contact BM1 John Hinson: 510-437-2980

D11LNM@uscg.mil

1. Name of Contractor: FUGRO

2. Type of Operation: Side Scan Sonar Survey

3. Location / Position Information: Offshore Ventura, California (See Attached Map)

4. Start and End Dates: Start: April 13, 2015, End: April 30, 2015

5. Vessel(s) Involved (include FCC Call Sign): R/V Theory

6. Radio Yes / No, VHF Freq's Monitored: Yes, VHF 16

7. Any other pertinent Info: The Theory will be towing up to 3000 feet of cable

astern of the vessel. Operations will be conducted

only during daylight hours.

8. POC Name & Telephone Number(s): Eddie Stutts or Cindy Pratt (Fugro)

805-650-7000

9. Chart Number: 18720

SOUTHERN CALIFORNIA-SURVEY OPERATIONS - OFFSHORE VENTURA, CALIFORNIA

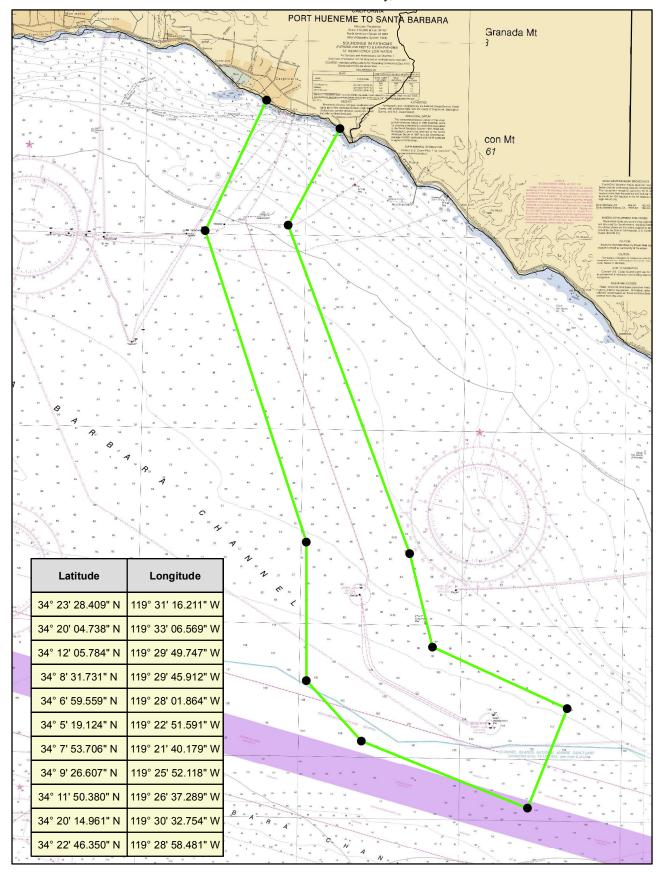
Fugro will be conducting a side scan sonar survey from the R/V Theory in the area outlined on the attached portion of Chart 18720. Operations will last approximately 5 days and be carried out between April 13 and 30, 2015, during daylight hours only. The R/V Theory will be towing up to 3000 feet of cable during mapping operations. The survey area is outlined by the following coordinates.

Latitude	Longitude
34° 23' 28.409" N	119° 31' 16.211" W
34° 20' 04.738" N	119° 33' 06.569" W
34° 12' 05.784" N	119° 29' 49.747" W
34° 8' 31.731" N	119° 29' 45.912" W
34° 6' 59.559" N	119° 28' 01.864" W
34° 5' 19.124" N	119° 22' 51.591" W
34° 7' 53.706" N	119° 21' 40.179" W
34° 9' 26.607" N	119° 25' 52.118" W
34° 11' 50.380" N	119° 26' 37.289" W
34° 20' 14.961" N	119° 30' 32.754" W
34° 22' 46.350" N	119° 28' 58.481" W

The vessel will have limited maneuverability during operations and mariners are advised to use due caution when transiting in the area. For more details or comments contact Cindy Pratt or Eddie Stutts at 805-650-7000.

NOAA Nautical Chart 18720 with Proposed Survey Area

Seafloor Mapping Geophysical Survey Notice Offshore Santa Barbara County, California





MARINE WILDLIFE CONTINGENCY PLAN

SIDE SCAN SONAR SURVEY FROM PLATFORM GAIL TO GRACE AND PLATFORM GRACE TO SHORE

Prepared for:

FUGRO PELAGOS, INC. 4820 McGrath St. Suite 100 Ventura, California 93003

Prepared by:

Padre Associates, Inc. 369 Pacific Street San Luis Obispo, California 93401

March 2015



TABLE OF CONTENTS

1.0	INTRO	DDUCTION	1
	1.1 1.2 1.3	PURPOSE AND OBJECTIVESPROPOSED SURVEY ACTIVITIES AND AREASURVEY EQUIPMENT	1
2.0	MARI	NE WILDLIFE	3
	2.1	PINNIPED HAUL-OUTS AND ROOKERIES	5
3.0	MARII	NE PROTECTED AREAS	3
4.0	ONBC	OARD MONITORING AND OTHER MITIGATIONS10	C
	4.1 4.2 4.3 4.4	VESSEL TRANSIT	0
5.0	RECC	RDING AND REPORTING PROCEDURES1	3
	5.1 5.2 5.3	OBSERVATION RECORDING	3
6.0	REFE	RENCES15	5
		TABLES	
2.1	Abun	dance Estimates for Marine Mammals and Reptiles within Southern California	_
2.1		ornia/Mexico Border to Point Conception)	
2.2	Califo	ornia Marine Wildlife Species and Periods of Occurrence within Southern California ornia/Mexico Border to Point Conception)	a
4.1		ng Gear Contact Information1	
5.1	Collis	ion Contact Information14	4
		FIGURES	
1	Propo	osed Survey Area	2
2		ped Haul-out and Rookeries	
3	Marin	e Protected Areas	9

APPENDICES

APPENDIX A: MARINE WILDLIFE MONITOR RESUMES



1.0 INTRODUCTION

This Marine Wildlife Contingency Plan (MWCP) has been developed for Fugro Pelagos, Inc., (Fugro) in support of side scan sonar survey along several pipelines interconnecting Platforms Gail and Grace then continuing onto shore, all located offshore of Ventura, California (Figure 1). This MWCP has been prepared in accordance with the requirements in the existing California State Lands Commission (CSLC)-issued geophysical and geologic sampling permit No. 8391.9. This MWCP is designed to reduce or eliminate adverse impacts to marine wildlife resources within the survey area.

This MWCP is specific to the equipment and activities that are proposed for the survey. The proposed monitoring and mitigations have been successfully used in agency-approved MWCPs for similar offshore surveys in southern California marine waters, and have been shown to be effective in reducing or eliminating potential impacts to marine mammals and turtles.

1.1 PURPOSE AND OBJECTIVES

The proposed survey will utilize a side scan sonar system to acquire seafloor imaging of existing pipelines and document the seafloor conditions within the pipeline right of ways. The survey will be completed by Fugro in accordance with requirements specified by Venoco, Inc's statement of work.

1.2 PROPOSED SURVEY ACTIVITIES AND AREA

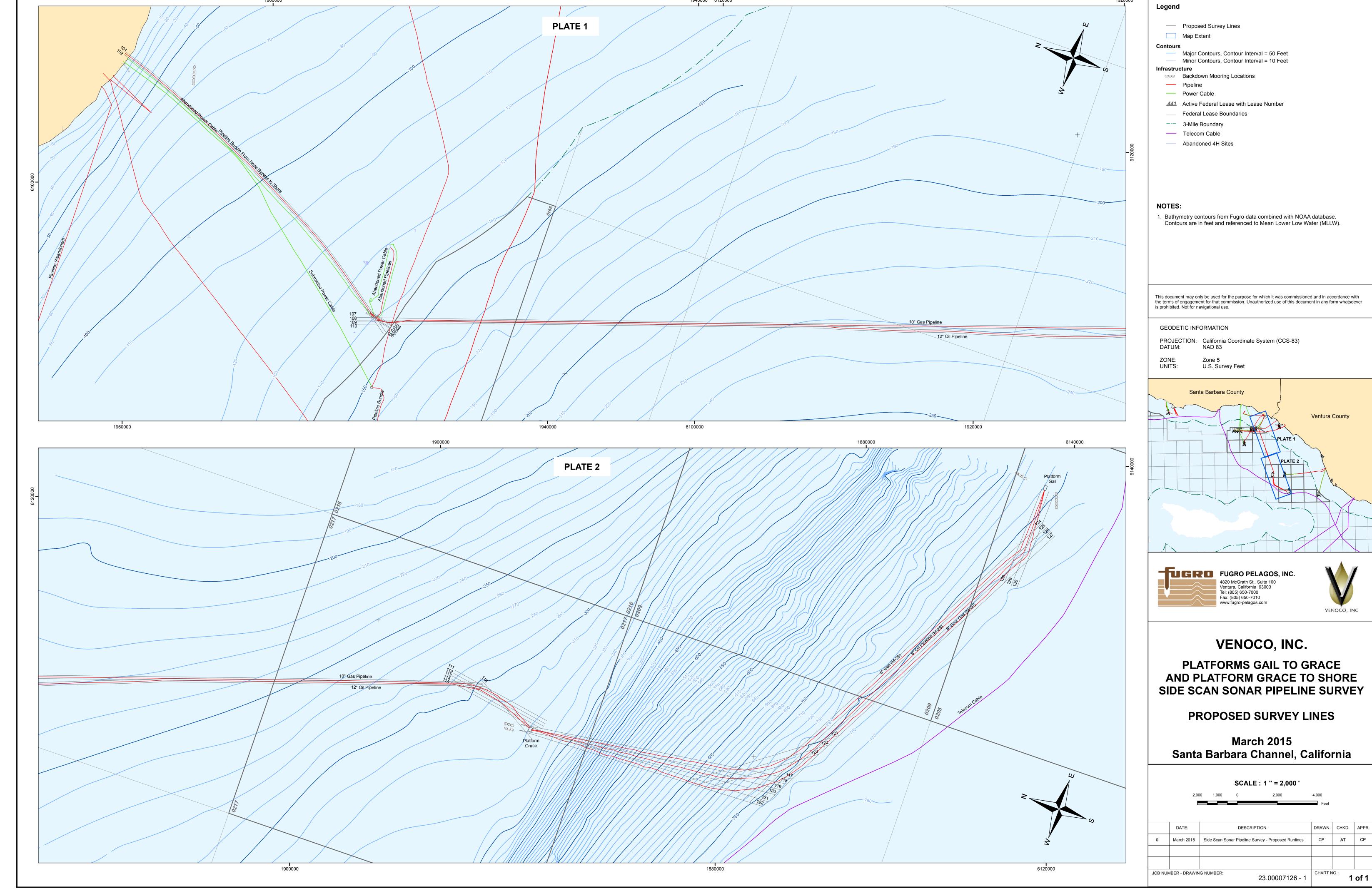
The survey will be completed over a five day period and will utilize Theory Marine's survey vessel (SV) *Theory*, a 11.2 meter (m) (37 foot [ft]) survey vessel designed specifically for hydrographic surveying. The vessel will be mobilized in Ventura Harbor and will transit to the survey area on the morning of each day. The survey will be completed during daylight hours (no nighttime operations are proposed). The vessel will return to the Ventura Harbor at the completion of each survey day.

The proposed survey area is located within federal and state waters with depths ranging from approximately 10 to 235 m (30 to 770 ft). Data will be collected within a survey corridor width of approximately 150 m (492 ft) (Figure 1).

1.3 SURVEY EQUIPMENT

Fugro proposes to use the following equipment to collect the required data:

- STARFIX® II DGPS Satellite Navigation System;
- IXSEA Global Acoustic Positioning System (GAPS) USBL Tracking System; and
- Edgetech 4200 Side Scan Sonar Towfish.



N:Projects\04_2015\23_0000_7126_Venoco_SSS_PLSurvey\Outputs\2015_03_01_WorkPlan\mxd\7126_Runlines_24x38.mxd, 03/12/15, tardifa



2.0 MARINE WILDLIFE

Multiple species of marine turtles, cetaceans (whales, dolphins, and porpoises, pinnipeds (seals and sea lions), and fissipeds (sea otter) have been recorded along the Southern California coast (Table 2.1). Most of the recorded species can occur within the survey region, although seasonal abundances of these taxa vary; pinnipeds and some dolphins are year-round residents (Table 2.2). Other species are migratory, such as the gray whale (Eschrichtius robustus), or seasonal, such as the blue and humpback whales (Balaenoptera musculus and Megaptera novaeangliae, respectively) and therefore are more abundant during specific months. Within the project region, resident, seasonal, and migrant taxa could be expected to occur.

Table 2.1. Abundance Estimates for Marine Mammals and Reptiles within Southern California (California/Mexico Border to Point Conception)

Common Name	Current Population Trend			
Scientific Name	Population Estimate			
REPTILES				
Cryptodira*				
Olive Ridley turtle	1.15 to 1.62 million	In avancia a		
Lepidochelys olivacea	(Eastern Tropical Pacific)	Increasing		
Green turtle	3,319 to 3,479	Increasing		
Chelonia mydas	(Eastern Pacific Stock)	increasing		
Leatherback turtle	361	Decreasing		
Dermochelys coriacea	(California)	Decreasing		
Loggerhead turtle	7,138	Decreasing		
Caretta caretta	(California)	Decreasing		
MAMMALS				
Mysticeti				
California gray whale	18,017	Increasing		
Eschrichtius robustus	(Eastern North Pacific)	Increasing		
Blue whale	1,551	Stable		
Balaenoptera musculus	(Eastern North Pacific)	Stable		
Fin whale	2,598	Increasing		
Balaenoptera physalus	(California/Oregon/Washington)	mereasing		
Humpback whale	1,876	Increasing		
Megaptera novaeangliae	(California/Oregon/Washington)	mereasing		
Minke whale	202	No long-term trends suggested		
Balaenoptera acutorostrata	(California/Oregon/Washington)	Tro long tolli trollas suggested		
Sei whale	83	No long-term trends suggested		
Balaenoptera borealis	(Eastern North Pacific)	The long term tremae daggested		
Northern Pacific right whale	25	No long-term trend is suggested		
Eubalaena japonica	(Eastern North Pacific)			
Odontoceti		1		
Short-beaked common dolphin	343,990	Unable to determine		
Delphinus delphis	(California/Oregon/Washington)	Chapte to determine		
Long-beaked common dolphin	76,224	Unable to determine		
Delphinus capensis	(California)	Shable to determine		
Dall's porpoise	32,106	Unable to determine		
Phocoenoides dalli	(California/Oregon/Washington)	Onable to determine		
Pacific white-sided dolphin	21,406			
Lagenorhynchus obliquidens	(California/Oregon/Washington	No long-term trends suggested		
,	Northern and Southern)			
Risso's dolphin	4,913 No long-term trends suggested			



Table 2.1. Abundance Estimates for Marine Mammals and Reptiles within Southern California (California/Mexico Border to Point Conception)

Common Name Scientific Name	Population Estimate	Current Population Trend		
Grampus griseus	(California/Oregon/Washington)			
Northern right whale dolphin Lissodelphis borealis	6,019 (California/Oregon/Washington)	No long-term trends suggested		
Bottlenose dolphin	684 (California/Oregon/Washington Offshore)	No long-term trends suggested		
Tursiops truncatus	290 (California Coastal)	No long-term trends suggested		
Sperm whale Physeter macrocephalus	751 (California/Oregon/Washington)	No long-term trends suggested		
Short-finned pilot whale Globicephala macrorhynchus	465 (California/Oregon/Washington)	No long-term trends suggested		
	85 (Eastern North Pacific Southern Resident)	Decreasing		
Killer whale Orcinus orca	162 (Offshore California/Oregon/Washington)	Unable to determine		
	243 (West Coast Transient)	Unable to determine		
Pinnipedia				
Northern fur seal Callorhinus ursinus	6,722 (California)	Increasing		
Guadalupe fur seal Arctocephalus townsendi	3,028 (Mexico; Undetermined in California)	Increasing		
California sea lion Zalophus californianus	153,337 (U.S.)	Increasing		
Northern elephant seal Mirounga angustirostris	74,913 (California Breeding)	Increasing		
Pacific harbor seal Phoca vitulina richardsi	26,667 (California)	Increasing		
Fissipedia				
Southern sea otter Enhydra lutris nereis	2,944**	Increasing		
* Estimates are based on number of currer ** Estimate provided by USGS (2014).	nt numbers of nesting females.			

Source: NMFS, 2014, and Allen et al., 2011



Table 2.2. California Marine Wildlife Species and Periods of Occurrence within Southern California (California/Mexico Border to Point Conception)

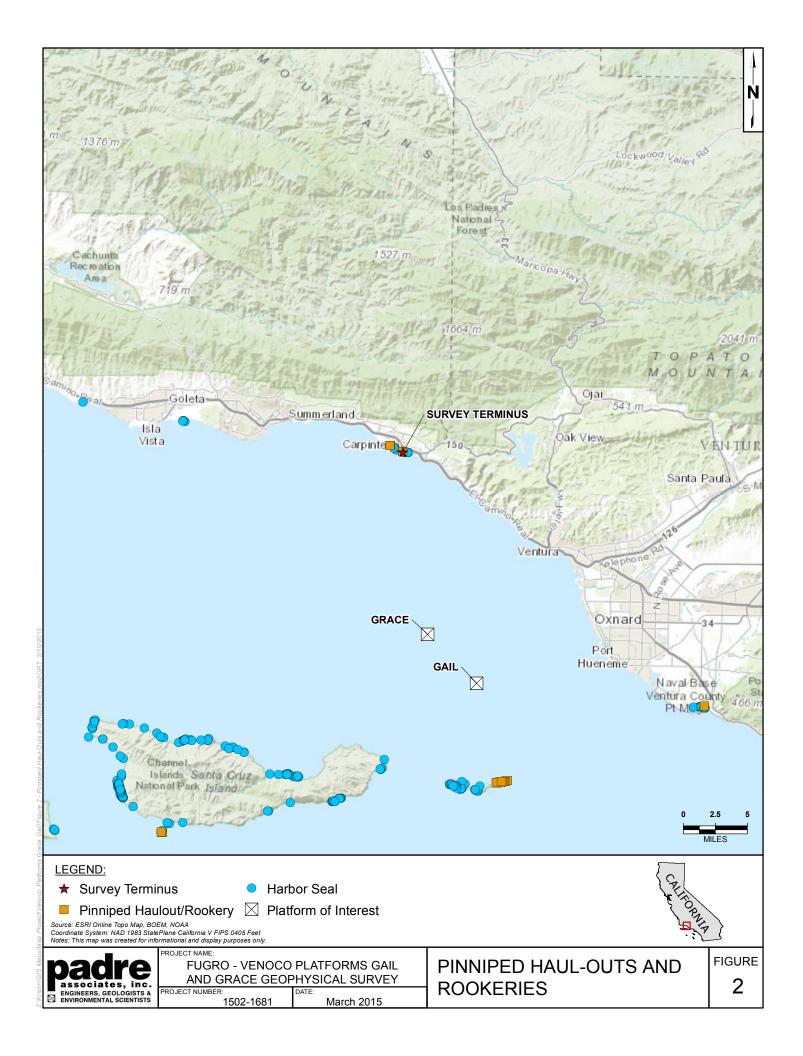
Family	Month of Occurrence ⁽¹⁾											
Common Name	J	F	М	Α	M	J	J	A	S	0	N	D
REPTILES		•		,,,				, , ,				
Cryptodira												
Olive Ridley turtle (T)												
Green turtle (T)												
Leatherback turtle (E)												
Loggerhead turtle (E)												
MAMMALS									<i>XIIIIIIIIIIIIIII</i>			
Mysticeti												
California gray whale												
Blue whale (E)												
Fin whale (E)												
Humpback whale (E)												
Minke whale												
Sei whale (E)												
Northern right whale (E)												
Odontoceti			•									•
Short-beaked common dolphin												
Long-beaked common dolphin												
Dall's porpoise												
Pacific white-sided dolphin												
Risso's dolphin												
Short-finned pilot whale												
Bottlenose dolphin												
Northern right whale dolphin												
Sperm Whale												
Killer Whale												
Pinnipedia												_
Northern fur seal ⁽²⁾												
Guadalupe fur seal												
California sea lion												
Northern elephant seal ⁽³⁾												
Pacific harbor seal												
Fissipedia												
Southern sea otter (T) ⁽⁴⁾												
Rare with uniform distribution Not expect to season			Э		e likely t easonal			I	Present '	Year Ro	und	
 (E) Federally listed endangered species. (T) Federally listed threatened species. (1) Where seasonal differences occur, individuals may also be found in the "off" season. Also, depending on the species, the numbers of abundant animals present in their "off" season may be greater than the numbers of less common animals in their "on" season. (2) Only a small percent occur over continental shelf (except near San Miguel rookery, May-November). (3) Common near land during winter breeding season and spring molting season. 					cies, the imals in							
(4) Only nearshore (diving limit 100 feet).												

Sources: Bonnell and Dailey,1993; NMFS, 2014 (a,b); NCCOS, 2007; and Allen, 2011



2.1 PINNIPED HAUL-OUTS AND ROOKERIES

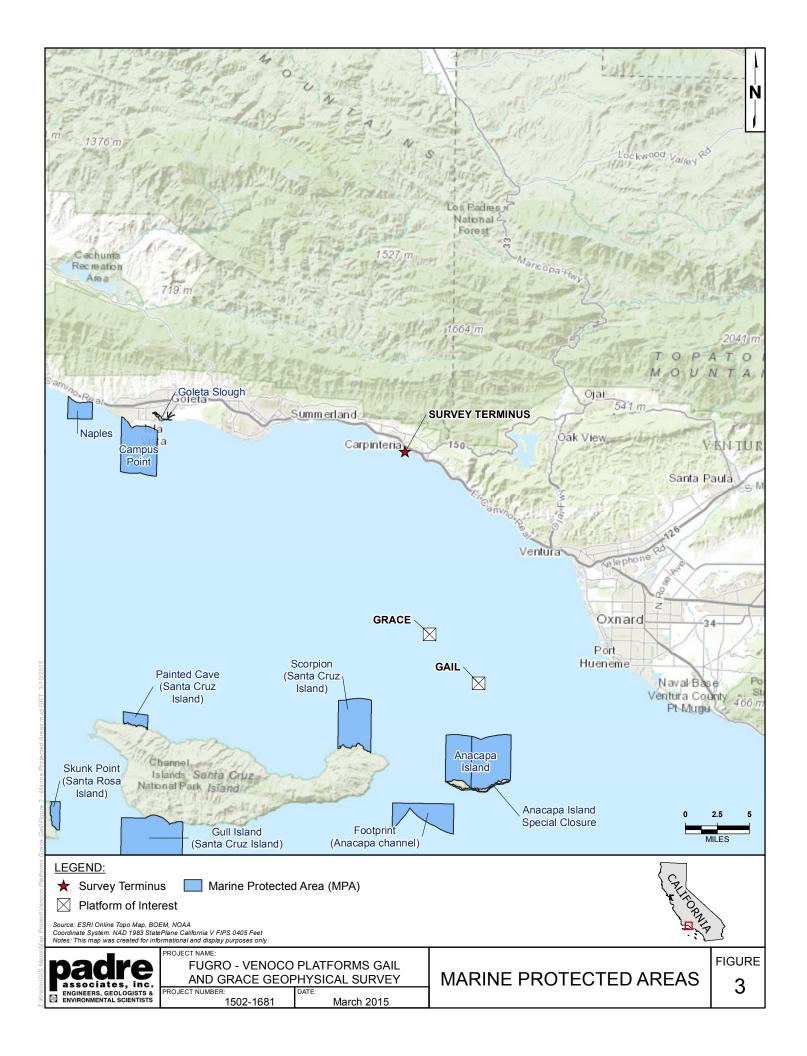
The proposed survey activities will occur within 300 m (1,000 ft) of pinniped haul-out and/or rookeries (Figure 2 depicts the locations of haul-outs and rookeries in the region). The closest haul-out/rookery is approximately 91 m (300 ft) northwest of the survey area. Mitigation measures to avoid potential impacts to pinniped haul-out and/or rookeries are described in Section 4.0 – Onboard Monitoring and Other Mitigations.





3.0 MARINE PROTECTED AREAS

The proposed survey area does not fall into a designated marine protected area (MPA). Anacapa Island State Marine Conservation Area (Figure 3) is the closest MPA, located approximately 2.3 kilometers (km) [1.4 miles (mi)] south of the survey area.





4.0 ONBOARD MONITORING AND OTHER MITIGATIONS

4.1 VESSEL TRANSIT

Following mobilization, the survey vessel will transit between Ventura Harbor and the survey area. During vessel transit to and from the survey area, there is a potential for encountering marine wildlife and therefore onboard monitoring will occur. Two qualified marine wildlife monitors (approved by NOAA Fisheries and/or experienced in marine wildlife observations – refer to Appendix A for monitor qualifications) will be onboard the vessel throughout the period of the vessel transit and data collection activities.

During transit periods, a marine wildlife monitor will be positioned on the vessel so that the monitor will have a clear view of the area of ocean that is in the direction of the course of travel. That monitor will observe marine mammals and turtles (marine wildlife) and will institute measures to avoid potential collisions with those animals. To minimize the chance of collision with or disturbance of marine mammals and turtles, the vessel will maintain a minimum distance of 91 m (300 ft) from marine wildlife in accordance with CSLC-issued geophysical and geologic sampling permit. If the marine wildlife monitor should observe a marine mammal or reptile within the path of the transiting vessel, the monitor will immediately report that observation to the vessel operator who will, unless those actions will jeopardize the safety of the vessel or crew, slow the vessel and/or change course in order to avoid contact.

When whales are in the survey area and/or are observed proximal to the vessel during transit periods the vessel operator will observe the following guidelines:

- Maintain a minimum distance of 100 m (330 ft) from sighted whales;
- Refrain from crossing directly in front of or across the path of sighted whales;
- Transit parallel to whales and maintain a constant speed that is not faster than the whale's speed;
- Avoid positioning the vessel in such a manner to separate a female whale from her calf;
- Do not use the vessel to herd or drive whales; and
- If a whale engages in evasive or defensive action, slow the vessel and move away from the animal until the animal calms or moves out of the area.

4.2 FISHING GEAR CLEARANCE

In addition to submitting the required Notice to Mariners that will alert commercial fishers of pending on-water activities prior to the start of each survey day, the vessel will traverse the proposed survey corridor to note and record the presence of deployed fishing gear. The type and location of fishing gear (buoys) will be noted, and the California Department of Fish and Wildlife (CDFW) Santa Barbara office and/or Joint Oil/Fisheries Liaison Office will be contacted. No survey lines will be completed within 30 m (100 ft) of any observed fishing gear. The survey



crew will not remove or relocate any fishing gear; removal or relocation will only be accomplished by the owner or by an authorized CDFW agent (Table 4.1).

Table 4.1. Fishing Gear Contact Information

Joint Oil/Fisheries Liaison Office	California Department of Fish & Wildlife, Santa Barbara	California Department of Fish & Wildlife, Marine Division
(805) 963-8819	(805) 568-1231	(831) 649-2870

4.3 SURVEY MONITORING

Three days prior to the initiation of the survey, Padre marine scientists will contact NOAA Fisheries Long Beach office staff and local private whale-watching operations to acquire information on the recently-observed composition and relative abundance of marine mammals offshore Ventura and the surrounding area. That information will be conveyed to the vessel operator and crew prior to departure for the survey area.

The onboard monitors responsible for observations during vessel transit will also be responsible for monitoring during the data collection efforts. Monitoring will be completed by a monitor using binoculars while located at a high vantage point onboard the survey vessel. As specified in the CSLC-issued geophysical and geologic sampling permit a safety zone is not required for any equipment operating at 200 kilohertz or greater.

During survey activities, the onboard monitor will observe for marine mammals when survey equipment is operating. At the time of equipment start-up, marine mammals/reptiles within the project area will be noted. If any animals show behavioral changes during equipment start-up, either the equipment will be shut down until the animal(s) move out of the area, or after 15 minutes of the animal(s) remaining in the project area, the equipment will be "ramped up" to full power. With the incorporation of this measure and the other mitigation measures discussed below, the proposed offshore survey activities are unlikely to have a high potential to injure and/or disturb marine wildlife.

The onboard monitor will have the authority to recommend halting data collecting operations if a mammal or turtle is observed within the project area, and is reacting to the survey-generated activities. The monitor will also have the authority to recommend continuation or cessation of operations during periods of limited visibility based on the observed abundance of mammals and/or reptiles. Periodic reevaluation of weather conditions and reassessment of the continuation/cessation recommendation will be completed by the onboard monitor.

4.4 MITIGATION MEASURES

The following operation-related actions will be implemented in accordance with CSLC permit requirements:

1. For surveys within 300 m (1,000 ft) of a haul-out site:



- a. The Survey vessel will not approach with in 91 m (300 ft) of a haul-out site;
- b. Survey activities will be conducted in an expedited manor to minimize the potential for disturbance of pinnipeds on land; and
- c. The Marine Wildlife Monitor will monitor pinniped activity onshore as the vessel approaches, observing and reporting on the number of pinnipeds potentially disturbed (e.g. via head lifting, flushing into the water).
- 2. Survey operator shall use a "soft start" technique at the beginning of survey activities each day (or following a shutdown) to allow any marine mammal that may be in the project area to leave before the sound sources reach full energy. The survey operator will initiate each piece of equipment at the lowest practical sound level, increasing the output no greater than six (6) decibels (dB) per 5-minute period;
- 3. During operations, if an animal's actions are observed to be "irregular" the monitor will have the authority to recommend the cessation of data collection until the animal moves out of the project area. If the behavior is observed, the equipment will be shut-off and will be restarted and ramped-up to full power or will not be started until the animal(s) is/are outside of the project area;
- The monitor will have the authority to recommend halting data collecting operations if a large concentration of diving birds/sea birds is observed in the immediate vicinity; and
- 5. Unless the safety of the vessel or crew would be in jeopardy, avoidance measures instituted during vessel transit will be implemented during geophysical data collection as well.

In addition to the measures discussed above, three days prior to the start of survey activities Padre marine scientists will contact Carpinteria Seal Watch (CSW) and notify the organization of the survey activities. Contact information for the lead onboard marine wildlife monitor will be provided and if any disturbance related to survey activities is observed from land observers, CSW will be able to notify the onboard monitor.

With the incorporation of the mitigation measures presented in this document, the proposed offshore survey activities are unlikely to cause injury and/or disturb marine wildlife.



5.0 RECORDING AND REPORTING PROCEDURES

5.1 OBSERVATION RECORDING

The onboard monitor will record observations on pre-printed forms and will photodocument observations whenever possible. The completed forms will be used as the primary data sources for the post-survey report (see Section 5.3 below) which will be provided to the CSLC and/or other agencies if requested.

5.2 COLLISION RESPONSE

If a collision with marine mammal or reptile occurs, the vessel operator must document the conditions under which the accident occurred, including the following:

- Location (latitude and longitude) of the vessel when the collision occurred;
- Date and time of collision;
- Speed and heading of the vessel at the time of collision;
- Observation conditions (e.g., wind speed and direction, swell height, visibility in miles or kilometers, and presence of rain or fog) at the time of collision;
- Species of marine wildlife contacted (if known);
- Whether an observer was observing for marine wildlife at the time of collision; and
- Name of vessel, vessel owner/operator (the company), and captain or officer in charge of the vessel at time of collision.

If a collision occurs, the vessel should stop, if safe to do so. However, the vessel is not obligated to stand by and may proceed after confirming that it will not further damage the animal by doing so. The vessel will then communicate by radio or telephone all details to the vessel's base of operations (Table 5.1).

Table 5.1. Collision Contact Information

Federal	State	State
Justin Viezbicke Stranding Coordinator National Marine Fisheries Service Long Beach, California (562) 980-3230	Enforcement Dispatch Desk California Department of Fish and Wildlife Long Beach, California (562) 590-5132	California State Lands Commission Division of Environmental Planning and Management Sacramento, California (916) 574-0748

The Marine Mammal Protection Act (MMPA) requires that collisions with or other Project-related impacts to marine wildlife will be reported promptly to the National Marine Fisheries Service (NMFS) Stranding Coordinator. From the report, the NMFS Stranding Coordinator will coordinate subsequent action, including enlisting the aid of marine mammal rescue organizations, if appropriate.



From the vessel's base of operations, a telephone call will be placed to the National Marine Fisheries Service West Coast (California) Stranding Coordinator in Long Beach, to obtain instructions. Alternatively, the vessel captain may contact the NMFS Stranding Coordinator directly using the marine operator to place the call or directly from an onboard telephone, if available to:

National Marine Fisheries Service West Coast Stranding Coordinator 501 West Ocean Blvd, Suite 4200 Long Beach, CA 90802 (562) 980-3230 Contact: Justin Viezbicke

Email: justin.viezbicke@noaa.gov

It is unlikely that the vessel will be asked to stand by until NMFS or CDFW personnel arrive; however, this will be determined by the NMFS Stranding Coordinator. According to the MMPA, the vessel operator is not allowed to aid injured marine wildlife or recover the carcass unless requested to do so by the NMFS Stranding Coordinator.

Although NMFS has primary responsibility for marine mammals in both state and federal waters, the CDFW will also be advised that an incident has occurred in state waters affecting a protected species.

5.3 MONITORING REPORT

A technical report will be prepared documenting the project activities, observations of marine wildlife, and a summary of encounters with any marine mammals and/or turtles, and subsequent actions taken during the survey. The report will be submitted to Fugro within two weeks of completion of field data collection. Fugro will then submit the monitoring report to the appropriate agencies.



6.0 REFERENCES

- Allen, S., Mortenson, J., and Webb, S.. 2011. Field Guide to Marine Mammals of the Pacific Coast: Baja, California, Oregon, Washington, British Columbia. University of California Press. Berkeley and Los Angeles, California.
- Bonnell, M.L., and Dailey, M.D.. 1993. Ecology of the Southern California Bight: A Synthesis and Interpretation. Berkeley, CA: University of California Press.
- National Marine Fisheries Service. 2011. Revised Critical Habitat Designation for the Endangered Loggerhead Sea Turtle. Final Rule. 114p.
- National Marine Fisheries Service. 2012. Biological opinion on continued operation of the Hawaii-based Shallow-set Longline Swordfish Fishery under Amendment 18 to the Fishery Management Plan for Pelagic Fisheries of the Western Region. Pacific Islands Regional Office. January 30, 2012
- National Marine Fisheries Service. 2014a. Marine Mammal Stock Assessment Reports by Species. Website: http://www.nmfs.noaa.gov/pr/sars/species.htm. Updated June 11, 2013 accessed on April 2, 2014.
- National Marine Fisheries Service 2014b. Status of Marine Turtles Website: http://www.nmfs.noaa.gov/pr/species/turtles/ Updated January 8, 2014 accessed on April 2, 2014.
- National Marine Fisheries Service and U.S. Fish and Wildlife Service. 2007a. Loggerhead Sea Turtle (*Caretta caretta*). 5-Year Review: Summary and Evaluation. 81 p.
- National Marine Fisheries Service and U.S. Fish and Wildlife Service. 2007b. Leatherback Sea Turtle (*Dermochelys coriacea*). 5-Year Review: Summary and Evaluation. 67 p.
- National Marine Fisheries Service and U.S. Fish and Wildlife Service. 2007c. Olive Ridley Sea Turtle (*Lepidochelys olivacea*). 5-Year Review: Summary and Evaluation. 67 p.
- National Marine Fisheries Service and U.S. Fish and Wildlife Service. 2007d. Green Sea Turtle (*Chelonia mydas*). 5-Year Review: Summary and Evaluation. 105 p.
- NOAA National Centers for Coastal Ocean Science (NCCOS). 2007. A Biogeographic Assessment off North/Central California: In Support of the National Marine Sanctuaries of Cordell Bank, Gulf of the Farallones and Monterey Bay. Phase II Environmental Setting and Update to Marine Birds and Mammals. Prepared by NCCOS's Biogeography Branch, R.G. Ford Consulting Co. and Oikonos Ecosystem Knowledge, in cooperation with the National Marine Sanctuary Program. Silver Spring, MD. NOAA Technical Memorandum NOS NCCOS 40. 240 pp.



U.S Geological Surveys (USGS). 2014. Spring 2014 California Sea Otter Census Results. website:

http://www.werc.usgs.gov/ProjectSubWebPage.aspx?SubWebPageID=23&ProjectID=91

APPENDIX A

MARINE WILDLIFE MONITOR RESUMES



Jennifer Klaib

Marine Biologist/Biologist

EDUCATION: B.S. Aquatic Biology (Marine Emphasis)

University of California – Santa Barbara, 2006.

QUALIFICATIONS:

- Biological Surveying and Monitoring
- Biological Resource Surveys/Reports
- Contingency Plans
- Restoration and Mitigation Plans
- Permit Compliance Monitoring
- Permit Applications
- Agency Communications
- Off-Shore Marine Mammal Monitoring
- Wildlife Rescue and Relocation

Ms. Klaib joined Padre Associates, Inc. in 2006. As a marine biologist with Padre she has experience in environmental assessments of coastal and offshore development projects, monitoring of construction impacts on biological resources, and in the permitting of coastal projects. Ms. Klaib is responsible for biological surveys, permit compliance monitoring, contingency plans, permit applications, environmental sensitivity trainings, sensitive species surveys, water quality sampling, and wildlife rescue and relocation.

Ms. Klaib has also worked for the Marine Science Institute at the University of California – Santa Barbara where she participated in subtidal and rocky intertidal field research associated with long-term monitoring of biological resources on the Channel Islands and in San Diego County. She also has 6 years of supervisonal experience in marine mammal rescue and rehabilitation with the Santa Barbara Marine Mammal Center.

MARINE PROJECT EXPERIENCE SUMMARY: Ms. Klaib has over 2,000 hours of offshore monitoring experience and is a NOAA Fisheries-qualified marine mammal monitor. Ms. Klaib was responsible for monitoring the effects of construction on marine mammals and turtles during geophysical surveys throughout the California coast, for the PG&E deep seismic surveys offshore Point Buchon, during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay, and during the replacement of a power cable offshore of Carpinteria. Ms. Klaib has also participated in aerial surveys off the central coast of California. She has logged 40 hours of aerial observations of marine mammals and reptiles.

Ms. Klaib has participated in construction monitoring activities for the Calleguas Municipal Water District Hueneme Outfall Replacement Project, AT&T AAG Fiber Optic Cable Project, the US Coast Guard Floating Dock Repair Project (San Diego Sector), Fifth Avenue Landing/Water Transportation Center Marina Enhancement Project and during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay. She was responsible for monitoring the effects of construction on



marine mammals, turtles and marine avifauna. Ms. Klaib also participated in turbidity monitoring activities for the later projects and for the PG&E pipeline remediation project in the Sacramento and San Joaquin rivers (delta region), ensuring permit compliance. She has also participated in post-construction monitoring of the recovery of surf grass (*Phyllospadix spp*) at the decommissioned Cojo Marine Terminal near Point Conception.

Prior to joining Padre Associates, Ms. Klaib participated in field studies that included monitoring of the effects of demolition of offshore oil and gas facilities in Santa Barbara Channel on fish, marine mammals and birds. The involvement included the collection and identification of fish species as well as recording aerial and shipboard observations of marine mammals.

ENVIRONMENTAL DOCUMENTATION:

Ms. Klaib's NEPA experience includes preparation of technical sections for environmental assessment documents for a proposed liquefied natural gas facility off the coast of California; for a proposed marina expansion; and for a proposed hydrogen gas pipeline between the cities of Martinez and Benicia in the Carquinez Straits area of San Francisco Bay. She has also participated in the preparation of permit applications and application support packages for shipyard and marina expansion projects in San Diego Bay.

Ms. Klaib's experience in CEQA projects includes preparation of environmental documents consisting of mitigated negative declarations (MND), initial studies, environmental assessments, monitoring reports, technical reports and environmental impact reports (EIR).

Ms. Klaib has experience in the development of monitoring plans, including the observation and reporting protocols that focus on the documentation of marine operations, oil spill prevention, and marine mammal and bird mitigation compliance.

BIOLOGICAL OPINIONS / PERMITS:

CDFG Scientific Collecting Permit (No. SC-11935) authorizing *capture and release* of marine fishes, and marine/tidal invertabrates. This permit also authorizes the salvage of marine aquatic plants.

CDFG Scientific Collecting Permit (No. SC-12730) authorizing *sacrifice* of marine aquatic plants, and marine/tidal invertabrates.

CERTIFICATIONS:

Certified SCUBA Diver (SSI, 2002) Certified AAUS Research Diver (2003) Certified Caulerpa Survey Specialist (2008)

40-Hr. Hazardous Waste Certification (HAZWOPER)

1st Aid, CPR, and Oxygen Administration Certified (Bi-annual Refresher) Offshore Survival/Helicopter Underwater Egress *Training* (H.U.E.T) (2008)

NOAA Basic Aviation and Aviation Health Safety Course (2012)

Confined Space Attendant and Entrant

San Ardo/Coalinga – EHS Site Specific Orientation.

Smith System Defensive Driving Course.



Michaela Hoffman

Staff Biologist

EDUCATION: B.S. Biology, Concentration: Marine Science and Fisheries

California Polytechnic State University, San Luis Obispo, 2009

QUALIFICATIONS: • Biological Surveying and Monitoring

• Biological Resource Surveys/Reports

Marine Wildlife Contingency Plans

• Essential Fish Habitat Assessments

Offshore Marine Wildlife Observer

Wildlife Rescue and Relocation

Ms. Hoffman is a staff biologist and is responsible for mitigation monitoring of protected species offshore, preparing permit applications, wildlife contingency plans and resource assessments. Primarily, she is responsible for monitoring various geophysical surveys offshore San Luis Obispo and Santa Barbara counties. Ms. Hoffman joined Padre Associates, Inc. in 2011. Prior to joining Padre, her experience consisted of both research-based and hands-on experience with marine wildlife.

OFFSHORE EXPERIENCE:

Ms. Hoffman's offshore experience includes over 150 hours while onboard the Navy Marine Mammal Program (NMMP) training vessels, as well as experience on a research boat for California Polytechnic State University. While with the NMMP in 2007, she was responsible for record keeping, care of working animals, and general crew duties. In 2008-2009, she participated in water quality research while studying at Cal Poly San Luis Obispo and has experience with small vessel operations within Morro Bay, California. Her responsibilities included navigating shallow water channels using GPS, monitoring for wildlife, and maintenance of instruments.

Ms. Hoffman has more than 1,000 hours of experience monitoring marine wildlife and is a National Oceanic and Atmospheric Administration (NOAA) qualified marine mammal monitor. She was responsible for monitoring marine mammals, reptiles, and avifauna during pipe replacement projects in the Dos Cuadras oil field in the Santa Barbara Channel and in the Beta Unit offshore Long Beach, California. Ms. Hoffman was also responsible for monitoring wildlife during the PG&E 3D geophysical surveys offshore San Luis Obispo county in 2011 and 2012, and the cable and seismometer deployments in 2013.

Resume 2014



ENVIRONMENTAL DOCUMENATION:

Ms. Hoffman has experience preparing marine wildlife contingency plans and incidental harassment assessments for high-energy offshore geophysical surveys, oil and gas pipe replacements, and marine terminal decommissioning projects. Ms. Hoffman has also prepared vessel oil spill contingency plans and essential fish habitat assessments for various marine projects. She has also assisted in the preparation of biological resource sections for CEQA documents such as environmental impact reports (EIRs), and mitigated negative declarations (MNDs).

MARINE WILDLIFE HANDLING:

Ms. Hoffman worked with the NMMP in San Diego, California where she had responsibilities in both animal husbandry and acoustical research with California sea lions and Atlantic bottlenose dolphins. Ms. Hoffman also has experience in marine mammal rehabilitation at the Marine Mammal Center in Morro Bay, California and Wolf Hollow Rehabilitation Center on San Juan Island, Washington. Her responsibilities included transporting sick and injured animals, and providing medical aid for federally protected species such as California sea lions, Pacific harbor seals, northern elephant seals, fur seals, and southern sea otters.

CERTIFICATIONS:

Certified SCUBA Diver, PADI 2008

40-Hr. Hazardous Waste Certification (HAZWOPER), 2011

CPR/AED and First Aid Certified, 2011

STCW Certified Personal Survival Techniques, Cal Maritime Academy, 2011

BIOLOGICAL WORKSHOPS:

Taxonomy and Ecology of Branchiopods of California and Oregon, December 2012. Presented by Christopher Rogers

Fairy Shrimp of California Identification Course, *March 2013.* Presented by Mary S. Belk.

From: Pratt, Cynthia FPI

Sent: Monday, March 30, 2015 10:58 AM **To:** 'sriedman@santabarbaraca.gov'

Subject: Pre-survey notification

Attachments: DiveShop_HrbrNotification.pdf

Good Morning, Mr. Riedman,

Per our geophysical notification requirements by California State Lands Commission (CSLC), I am submitting to you the attached notice for posting.

Please contact me if you have any questions or require further information.

Kind regards, Fugro Pelagos, Inc.

Cindy Pratt Survey Operations Manager – Ventura

From: Pratt, Cynthia FPI

Sent: Thursday, March 26, 2015 4:14 PM

To: 'D11LNM@uscg.mil'
Cc: Stutts, Eddie FPI

Subject: Local Notice to Mariners

Attachments: LNM-Geophysical Survey Venoco 2015.pdf

Good Afternoon,

Attached is a local notice to mariners for an upcoming project.

Please contact me if you have any questions or further requirements.

Kind regards, Fugro Pelagos, Inc.

Cindy Pratt
Survey Operations Manager – Ventura

From: Pratt, Cynthia FPI

Sent: Monday, March 30, 2015 10:55 AM

To:'staff@venturadive.com'Subject:Pre-survey notification

Attachments: DiveShop_HrbrNotification.pdf

Good Morning,

Per our geophysical notification requirements by California State Lands Commission (CSLC), I am submitting to you the attached notice for posting.

Please contact me if you have any questions or require further information.

Kind regards, Fugro Pelagos, Inc.

Cindy Pratt Survey Operations Manager – Ventura

From: Pratt, Cynthia FPI

Sent: Thursday, March 26, 2015 4:18 PM **To:** 'smiller@venturaharbor.com'

Cc: Stutts, Eddie FPI

Subject: Pre-survey notification

Attachments: DiveShop_HrbrNotification.pdf

Good Afternoon, Mr. Miller,

Per our geophysical notification requirements by California State Lands Commission (CSLC), I am submitting to you the attached notice for posting.

Please contact me if you have any questions or require further information.

Kind regards, Fugro Pelagos, Inc.

Cindy Pratt

Survey Operations Manager – Ventura